

**WHAT IS CLAIMED IS:**

1. A method for generating a new knowledge base, the method comprising:
  - receiving a signal that defines content to be included in the new knowledge base;
  - searching for tables within an existing database and identifying at least one candidate table that is associated with data that may be relevant to the defined content to be included in
  - 5 the new knowledge base;
  - determining at least one candidate application programming interface (API) for each candidate table;
  - assessing combinations of the identified at least one candidate table and the determined at least one candidate API and selecting therefrom a master table and a master
  - 10 API for the new knowledge base; and
  - generating the new knowledge base that is accessible by more than one application program within an integrated system.
2. The method of claim 1, wherein the received signal is generated by an application program within the integrated system.
- 15 3. The method of claim 1, wherein the new knowledge base is generated in response to the received signal.
4. The method of claim 1, wherein searching for tables within an existing database and identifying at least one candidate table that is associated with data that may be relevant to content to be included in the new knowledge base comprises: applying one or more
- 20 heuristic rules to determine a score for each table and selecting candidate tables from among tables that score above a threshold score.
5. The method of claim 4, further comprising adapting the heuristic rules based on experience to optimize performance of subsequently generated new knowledge bases.
6. The method of claim 1, wherein determining at least one candidate API for each
- 25 candidate table comprises: assessing APIs and applying one or more heuristic rules to

determine a score for each API and selecting candidate APIs from among APIs that score above a threshold score.

7. The method of claim 6, further comprising adapting the heuristic rules based on experience to optimize performance of subsequently generated new knowledge bases.

5      8. The method of claim 1, wherein determining at least one candidate application programming interface (API) for each candidate table comprises: selecting at least one existing API to be one of the candidate APIs.

9. The method of claim 1, wherein determining at least one candidate application programming interface (API) for each candidate table comprises: generating code to  
10      create one of the candidate APIs.

10. The method of claim 1, further comprising testing the new knowledge base to verify that the new knowledge base is accessible by more than one application program within the integrated system.

11. The method of claim 1, wherein the method runs as a background process relative to the  
15      application program.

12. The method of claim 1, further comprising generating the new knowledge base with a single click from within the application program.

13. The method of claim 1, further comprising selecting an icon on a display to trigger the received signal.

20      14. The method of claim 1, wherein the integrated system comprises an enterprise system.

15. A computer program product containing therein instructions that, when executed, cause a processor to:

    receive a signal that defines content to be included in a new knowledge base that is to be generated;

search for tables within an existing database and identify at least one candidate table that is associated with data that may be relevant to the defined content to be included in the new knowledge base;

5       determine at least one candidate application programming interface (API) for each candidate table;

assess combinations of the identified at least one candidate table and the determined at least one candidate API and select therefrom a master table and a master API for the new knowledge base; and

10       generate the new knowledge base that is accessible by more than one application program within an integrated system.